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NOTICE OF ALLOWANCE AND FEE(S) DUE

35525

7590

09/29/2008

IBM CORP (YA) C/O YEE & ASSOCIATES PC P.O. BOX 802333 DALLAS, TX 75380 EXAMINER

WANG, LIANG CHE A

ART UNIT PAPER NUMBER

2153

DATE MAILED: 09/29/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,587	03/25/2004	Rhonda L. Childress	AUS920040118US1	7118

TITLE OF INVENTION: COMPOSITE RESOURCE MODELS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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C/O YEE & AS			addı	I hereby certify that this Fee(s) Transmittal is being deposited with the States Postal Service with sufficient postage for first class mail in an addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO (571) 273-2885, on the date indicated below			
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			_			(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO	O. CONFIRMATION NO.	
10/809,587	03/25/2004		Rhonda L. Childress		AUS920040118US1	7118	
TITLE OF INVENTION	N: COMPOSITE RESOU	RCE MODELS					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE TOTAL FEE(S) I	DUE DATE DUE	
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/29/2008	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
WANG, LIA	ANG CHE A	2153	709-224000				
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p				
	oondence address (or Cha B/122) attached.	inge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	L THE PATENT (print or typ	ne)			
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the pa	atent. If an assigne	ee is identified below, th	ne document has been filed for	
recordation as set fort (A) NAME OF ASSI	•	pletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	_	OLINITDV)		
(A) NAIVIE OF ASSI	GNEE		(B) RESIDENCE: (CIT I	and STATE OR C	OUNIKI)		
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 🖵 Co	rporation or other private	e group entity 🚨 Government	
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): (Ple a	se first reannly an	v previously paid issue	fee shown above)	
Issue Fee	are submitted.	ייִ-	A check is enclosed.	ве шестеарріу ап	y previously paid issue	ice shown above)	
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.				
Advance Order -	# of Copies		The Director is hereby overpayment, to Depo	authorized to charg	ge the required fee(s), any	y deficiency, or credit any se an extra copy of this form).	
5. Change in Entity Sta	itus (from status indicate	d above)	- · · · · · · · · · · · · · · · · · · ·		(
a. Applicant claim	ns SMALL ENTITY state	us. See 37 CFR 1.27.	☐ b. Applicant is no long	ger claiming SMAL	L ENTITY status. See 3'	7 CFR 1.27(g)(2).	
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req	uired) will not be accepte ites Patent and Trademark	d from anyone other than to Office.	he applicant; a regis	stered attorney or agent; o	or the assignee or other party in	
interest us she will by une	Total of the amount						
Authorized Signature				Date			
Typed or printed name			Registration No				
This collection of inform	nation is required by 37 C	CFR 1.311. The information	on is required to obtain or r	etain a benefit by th	ne public which is to file	(and by the USPTO to process)	
submitting the complete	d application form to the	USPTO. Time will vary	depending upon the indiving Chief Information Office	ridual case. Any cor	mments on the amount of	uding gathering, preparing, and of time you require to complete Department of Commerce, P.O. ner for Patents, P.O. Box 1450,	
Box 1450, Alexandria, V Alexandria, Virginia 223	Virginia 22313-1450. DC 313-1450.	O NOT SEND FEES OR	COMPLETED FORMS TO	THIS ADDRESS	. SEND TO: Commission	ner for Patents, P.O. Box 1450,	

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,587 03/25/2004		Rhonda L. Childress	AUS920040118US1 7118	
35525 75	90 09/29/2008		EXAM	IINER
IBM CORP (YA)	WANG, LIA	ANG CHE A	
C/O YEE & ASSC		ART UNIT	PAPER NUMBER	
P.O. BOX 802333		2153		
DALLAS, TX 753	80	DATE MAIL ED: 00/20/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 846 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 846 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/809,587	CHILDRESS ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Liangche A. Wang	2153			
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this applied or other appropriate communication (GHTS). This application is subject to and MPEP 1308.	plication. If not included will be mailed in due course. THIS			
2. The allowed claim(s) is/are <u>1,3-7,10-12,14-18 and 20 (renu</u>	<u>ımbered as 1-15)</u> .				
 3. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Application No				
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (c) Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☒ Examiner's Amendr 8. ☐ Examiner's Stateme 9. ☐ Other /Liangche A. Wang/ Primary Examiner, Art Unit	(PTO-413), re nent/Comment ent of Reasons for Allowance			

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EXAMINER'S AMENDMENT

1. Claims 1, 3-7, 10-12, 14-18, and 20 are allowed.

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 3. Authorization for this examiner's amendment was given in a telephone interview with Wayne P. Bailey on 9/16/08.
- 4. The application has been amended as follow:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for monitoring a resource to determine whether the resource is in a proper operational state, wherein the resource is a monitored resource, the method comprising: determining whether the monitored resource is part of a composite resource;

associating the monitored resource with the composite resource, wherein associating the monitored resource with the composite resource includes linking an entry in a resource data structure with an entry in a composite resource data structure; [[and]]

altering a reporting format for monitoring information to report monitoring information for the monitored resource and for the composite resource, wherein the monitoring information includes an operational status of the resource, and wherein the composite resource is a cluster, wherein the cluster is a plurality of server data processing systems aggregated together in a computing cooperative fashion such that at least some data resources of the plurality of server data processing systems are usable by another of the plurality of server data processing systems;

determining whether the cluster is part of a grid; and

associating the cluster with the grid, wherein the grid is a plurality of client and server data processing systems that operate to provide a plurality of computing resources for a common task to be performed by the grid.

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2. (Cancelled)

3. (Original) The method of claim 1, further comprising: receiving the monitoring information at a resource manager; and aggregating the monitoring information for the composite resource.

- 4. (Currently Amended) The method of claim 1, wherein associating the monitored resource with the composite resource includes creating an entry for the monitored resource in [[a]] the resource data structure.
- 5. (Original) The method of claim 4, wherein the resource data structure is a resource table.
- 6. (Currently Amended) The method of claim 4, wherein associating the monitored resource with the resource further includes linking the entry in the resource data structure with an entry in [[a]] the composite resource data structure.
- 7. (Previously Presented) The method of claim 6, wherein the composite resource data structure is a cluster data structure.
- 8-9. (Cancelled)
- 10. (Currently Amended) The method of claim [[9]] 1, wherein associating the cluster with the grid includes linking the entry in the cluster data structure with an entry in a grid data structure.
- 11. (Original) The method of claim 1, wherein determining whether the monitored resource is part of a composite resource includes identifying at least one of files loaded for a composite resource, hooks being leveraged in an operating system of the resource, and processes running for a composite resource.
- 12. (Currently Amended) An apparatus including a data processor for monitoring a resource to determine whether the resource is in a proper operational state, wherein the resource is a monitored resource, the apparatus comprising:

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determination means for determining whether the monitored resource is part of a composite resource;

association means for associating the monitored resource with the composite resource, wherein the association means for associating the monitored resource with the composite resource includes linking means for linking an entry in a resource data structure with an entry in a composite resource data structure; [[and]]

alteration means for altering a reporting format for monitoring information to report monitoring information for the monitored resource and for the composite resource, wherein the monitoring information includes an operational status of the resource, and wherein the composite resource is a grid, wherein the grid is a plurality of client and server data processing systems that operate to provide a plurality of computing resources for a common task to be performed by the grid;

determining means for determining whether the cluster is part of a grid; and
second association means for associating the cluster with the grid, wherein the grid is a plurality
of client and server data processing systems that operate to provide a plurality of computing resources for
a common task to be performed by the grid.

- 13. (Cancelled)
- 14. (Original) The apparatus of claim 12, further comprising:

 means for receiving the monitoring information at a resource manager; and

 means for aggregating the monitoring information for the composite resource.
- 15. (Currently Amended) The apparatus of claim 12, wherein the association means includes means for creating an entry for the monitored resource in [[a]] the resource data structure.
- 16. (Original) The apparatus of claim 15, wherein the resource data structure is a resource table.
- 17. (Original) The apparatus of claim 12, wherein the determination means includes means for identifying at least one of files loaded for a composite resource, hooks being leveraged in an operating system of the resource, and processes running for a composite resource

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18. (Currently Amended) A computer program product, <u>stored on [[in]]</u> a computer <u>readable recordable medium</u>, for monitoring a resource to determine whether the resource is in a proper operational state, wherein the resource is a monitored resource, the computer program product comprising:

instructions for determining whether the monitored resource is part of a composite resource; instructions for associating the monitored resource with the composite resource, wherein the instructions for associating the monitored resource with the composite resource includes instructions for linking an entry in a resource data structure with an entry in a composite resource data structure; [[and]]

instructions for altering a reporting format for monitoring information to report monitoring information for the monitored resource and for the composite resource, wherein the monitoring information includes an operational status of the resource, and wherein the composite resource is one of a cluster and a grid, wherein the cluster is a plurality of server data processing systems aggregated together in a computing cooperative fashion such that at least some data resources of the plurality of server data processing systems are usable by another of the plurality of server data processing systems, and wherein the grid is a plurality of client and server data processing systems that operate to provide a plurality of computing resources for a common task to be performed by the grid;

instructions for determining whether the cluster is part of a grid; and instructions for associating the cluster with the grid, wherein the grid is a plurality of client and server data processing systems that operate to provide a plurality of computing resources for a common task to be performed by the grid.

- 19. (Cancelled)
- 20. (Original) The computer program product of claim 18, further comprising: instructions for receiving the monitoring information at a resource manager; and instructions for aggregating the monitoring information for the composite resource.
 - 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany

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the issue fee. Such submissions should be clearly labeled "Comments on Statement of

Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Liang-che Alex Wang whose telephone number is

(571)272-3992. The examiner can normally be reached on Monday thru Friday, 8:30 am

to 5:00 pm.

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Glenton B Burgess can be reached on (571)272-3949. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free)..

Liang-che Alex Wang September 17, 2008

/Liangche A. Wang/

Primary Examiner, Art Unit 2153

Application/Control Number: 10/809,587

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